

IN THE CLAIMS

Please amend the claims as follows:

1. Television-A television system comprising a tuner for tuning video signals, a controller for controlling said tuner, and a stage for receiving tuned signals from said tuner and for supplying at least one control signal to said controller, wherein said stage comprises a phase-locked-loop coupled to receive said tuned signals, said phase-locked loop generating a lock signal when locked to said tuned signals, said lock signal forming, with said at least one control signal comprising a lock signal originating from said phase-locked loop for said controller.
2. Television-The television system according toas claimed in claim 1, wherein said television system comprises a synchronization generator for synchronizing video signals originating from said stage and for supplying at least one synchronization signal to said controller, said controller comprising which comprises a switch for, in dependence of said lock signal, taking or not taking into account said synchronization signal or not.
3. Television-The television system according toas claimed in claim 2, wherein said controller, in a fast tuning mode, controls said tuner such that one or more frequencies nearby one or more active channels are detected, with said controller, in a fine

tuning mode, controlling said tuner such that one or more channel frequencies are identified.

4. Television-The television system according toas claimed in claim 3, wherein said controller receives a further control signal and wherein said stage comprises an intermediate frequency stage having means for generating a fine tuning signal, said fine tuning signal for supplying said control signal further comprising a fine tuning signal to said controllersaid further control signal.

5. Television-The television system according toas claimed in claim 4, wherein a number of channels are predefined channels in accordance with a frequency table.

6. Television-The television system according toas claimed in claim 5, wherein said lock signal is a phase-locked-loop lock bit derived from an alternating current content of an oscillator input signal in said phase-locked-loop.

7. Controller-A controller for use in television system comprising a tuner for tuning video signals and said controller for controlling said tuner and a stage for receiving tuned signals from said tuner and for supplying at least one control signal to said controller, wherein said stage comprises a phase-locked-loop coupled to receive said tuned signals, said phase-locked loop generating a lock signal when locked to said tuned signals, said

lock signal forming, with said at least one control signal comprising a lock signal originating from said phase-locked loop for said controller.

8. Controller according to The controller as claimed in claim 7, wherein said television system comprises a synchronization generator for synchronizing video signals originating from said stage and for supplying at least one synchronization signal to said controller which comprises, said controller comprising a switch for, in dependence of said lock signal, taking or not taking into account said synchronization signal or not.

9. Method A method for use in television system comprising a tuner for tuning video signals and a stage for receiving tuned signals from said tuner, which said method comprises comprising the steps of:

controlling tuning said tuner to one of a plurality of frequencies at which video signal should be located;

determining whether a channel is active at the tuned frequency using in response to at least one control signal originating from said stage, wherein said stage comprises a phase-locked-loop in said stage, said phase-locked loop being coupled to an output of the tuner and generating a lock signal in response thereto; and

controlling the tuner, with said control signal comprising a said lock signal originating from said phase locked loop.

10. Processor program product a computer-readable medium for use in television system comprising a tuner for tuning video signals and a stage for receiving tuned signals from said tuner and a controller, which processor program products said computer-readable medium having programming instructions stored thereon for causing the controller to comprises the function of controlling said tuner in response to at least one control signal originating from said stage, wherein said stage comprises a phase locked loop, with said control signal comprising a lock signal originating from said phase locked loop execute the method as claimed in claim 9.